



Michael F. Easley  
Governor

William G. Ross, Jr., Secretary  
North Carolina Department of Environment and Natural Resources

Alan W. Klimek, P.E., Director  
Division of Water Quality

May 25, 2007

Mr. Michael E. Johnson  
Environmental Manager  
E.I. DuPont de Nemours & Company  
22828 NC Hwy 87 W  
Fayetteville, North Carolina 28306-7332

Subject: NPDES Permit Issuance  
Permit No. NC0003573  
Fayetteville Works  
Bladen County

Dear Mr. Johnson:

Division personnel have reviewed and approved your application for renewal of the subject permit. Accordingly, we are forwarding the attached NPDES discharge permit. This permit is issued pursuant to the requirements of North Carolina General Statute 143-215.1 and the Memorandum of Agreement between North Carolina and the U.S. Environmental Protection Agency dated May 9, 1994 (or as subsequently amended).

The following modifications from your draft permit are included in the final permit:

- Sampling frequency for conductivity was corrected to weekly.
- The waiver for instream sampling that was inadvertently omitted in the draft permit is included in the footnotes for Outfall 002.
- Monthly monitoring for PFOA was added to outfall 002 to gather effluent and instream data for this parameter.

If any parts, measurement frequencies or sampling requirements contained in this permit are unacceptable to you, you have the right to an adjudicatory hearing upon written request within thirty (30) days following receipt of this letter. This request must be in the form of a written petition, conforming to Chapter 150B of the North Carolina General Statutes, and filed with the Office of Administrative Hearings (6714 Mail Service Center, Raleigh, North Carolina 27699-6714). Unless such demand is made, this decision shall be final and binding.

Please note that this permit is not transferable except after notice to the Division. The Division may require modification or revocation and reissuance of the permit. This permit does not affect the legal requirements to obtain other permits which may be required by the Division of Water Quality or permits required by the Division of Land Resources, the Coastal Area Management Act or any other Federal or Local governmental permit that may be required.

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*Naturally*

North Carolina Division of Water Quality  
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1617 Mail Service Center  
512 N. Salisbury St.

Raleigh, NC 27699-1617  
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Customer Service  
1-877-623-6748

**A. (3) EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

Beginning on the effective date of this permit and lasting through the expiration date, the Permittee is authorized to discharge from **Outfall 002 (boiler blowdown, once-through cooling water, and treated wastewater from outfall 001)** Such discharges shall be limited and monitored by the Permittee as specified below:

PARAMETER	EFFLUENT LIMITATIONS		MONITORING REQUIREMENTS		
	Monthly Average	Daily Maximum	Measurement Frequency	Sample Type	Sample Location <sup>1</sup>
Flow (MGD)			Continuous	Recording	Effluent
Temperature, °C	See Note 2		Daily <sup>3</sup>	Grab	Effluent, Upstream, Downstream
BOD <sub>5</sub> , 20°C			Quarterly	Composite	Effluent
COD			Quarterly	Composite	Effluent
Fluoride <sup>4</sup>		7917 lbs/day	Weekly	Grab	Effluent, Upstream, Downstream
Dissolved Oxygen			Weekly	Grab	Upstream, Downstream
PFOA <sup>5</sup>			Monthly	Grab	Effluent
Total Phosphorus			Monthly	Composite	Effluent
Total Nitrogen (NO <sub>2</sub> +NO <sub>3</sub> +TKN)			Monthly	Composite	Effluent
Conductivity			Weekly	Grab	Upstream, Downstream
pH	Between 6.0 and 9.0 Standard Units		3/Week	Grab	Effluent

**Notes:**

- Upstream shall be at the Permittee's river pump station; downstream shall be at the boat ramp approximately 4500 feet downstream at Prospect Hall Landing.  
As a participant in the Cape Fear River Basin Association, the instream monitoring requirements as stated above are waived. Should your membership in the agreement be terminated, you shall notify the Division immediately and the instream monitoring requirements specified in your permit shall be reinstated.
- The temperature of the effluent shall be such as not to cause an increase in the temperature of the receiving stream of more than 2.8°C and in no case cause the ambient water temperature to exceed 32°C.
- Daily shall be defined as every day except Saturdays, Sundays, and legal holidays. Instream temperature sampling shall be conducted weekly.
- The samples for fluoride shall be taken downstream of the 001 discharge, unless or until, all neutralized Nafion area streams are discharged entirely into the cooling water outfall, 002. Instream fluoride monitoring shall be conducted monthly and shall coincide with effluent monitoring.
- PFOA (Perfluorooctanoic acid) - The Cape Fear River water intake may be sampled for PFOA on a monthly basis and reported as an upstream parameter in DWQ Form - MR-3.

THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.



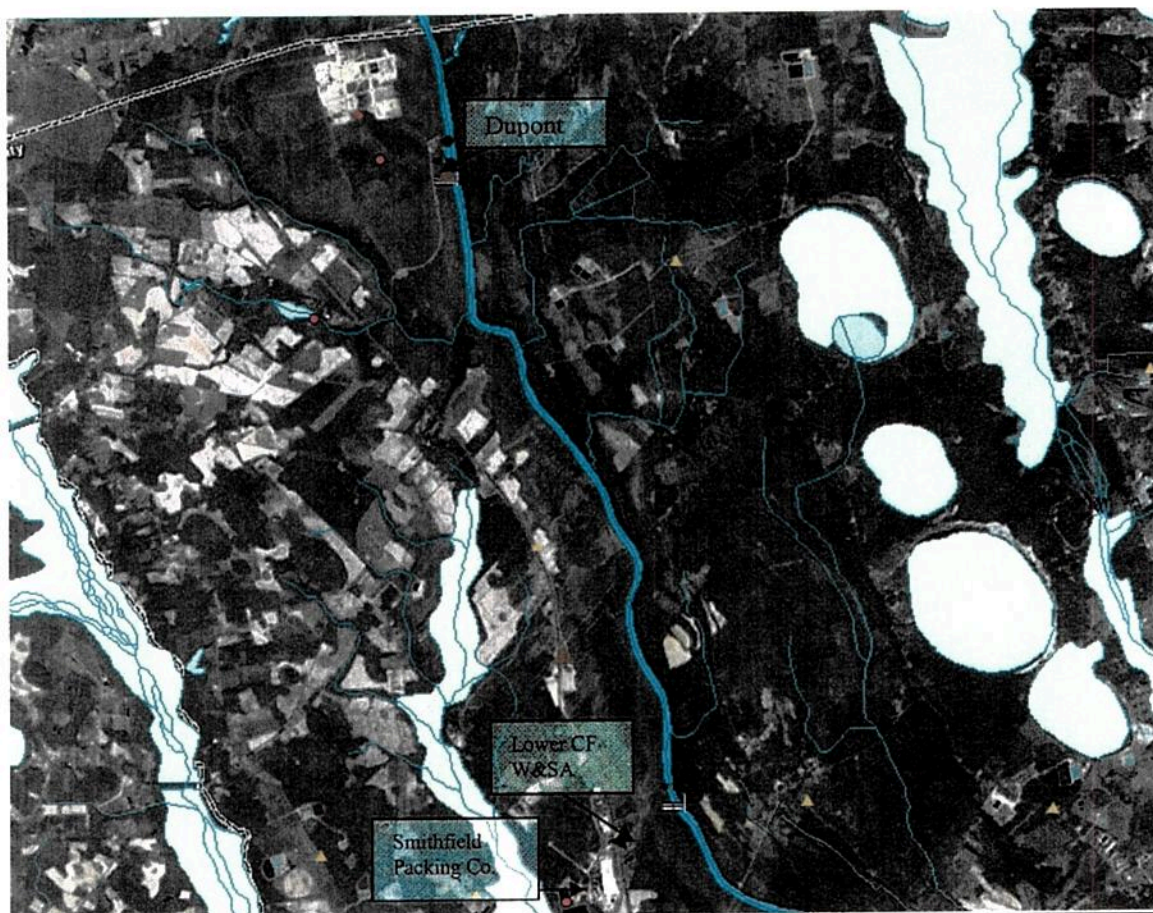


Figure 1: Cape Fear River in Bladen County, North Carolina and Dupont DMR data below:

Jan 2008	ug/l	0.14
Feb 2008	ug/l	0.15
Mar 2008	ug/l	0.1
Apr 2008	ug/l	0.14
May 2008	ug/l	0.12
Jun 2008	ug/l	0.11
Jul 2008	ug/l	0.2
Aug 2008	ug/l	0.097
Sept 2008	ug/l	0.02
Oct 2008	ug/l	0.13
Nov 2008	ug/l	0.06
Dec 2008	ug/l	0.04
Jan 2009	ug/l	0.05
Feb 2009	ug/l	0.03
Mar 2009	ug/l	0.019
Apr 2009	ug/l	0.04
May 2009	ug/l	0.22
Jun 2009	ug/l	0.08
July 2009	ug/l	0.05

1. How will sludge be handled?
2. What about other WTPs?
3. What " " PFOA discharges?